1N4531 1N4534
1N4532 1N4536
1N4533

Diode, switching, leaded

These diodes are in a glass sealed envelope and are suitable for lead mounting on printed circuit boards.

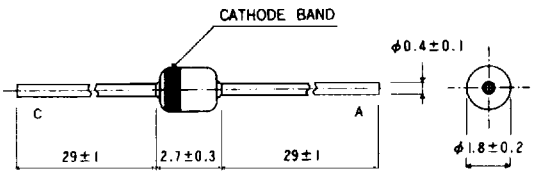
Features

- available in DO-34 package
- part markings, see following table

Applications

- general rectification

Dimensions (Units : mm)



Cathode band color and marking

Part no.	Color	Marking
1N4531	Black	31R
1N4532	Black	32R
1N4533	Black	33R
1N4534	Black	34R
1N4536	Black	36R

Absolute maximum ratings (T_a = 25°C)

Part no.	Peak reverse voltage V_{RM} (V)	DC reverse voltage V_R (V)	Peak forward current I_{FM} (mA)	Mean rectifying current I_O (mA)	Forward current I_F (mA)	Peak forward current I_{FSM} 1 μs (A)	Power dissip-ation P (mW)	Contact temper-ature T_j (°C)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
1N4531	100	75	450	150	200	2	500	200	−65 ~ +200	−65 ~ +200
1N4532	75	50	450	150	200	2	500	200	−65 ~ +200	−65 ~ +200
1N4533	40	30	450	150	200	2	500	200	−65 ~ +200	−65 ~ +200
1N4534	75	50	450	150	200	2	500	200	−65 ~ +200	−65 ~ +200
1N4536	35	25	450	150	200	2	500	200	−65 ~ +200	−65 ~ +200

Electrical characteristics (unless otherwise noted, T_a = 25°C)

Part no.	Forward voltage V_F (V)												BV (V) (min)		Reverse current I_R (μA) (max)				Cap bet term C_t (pF) V_R = 0 f = 1 MHz	Rev rec time t_{rr} (ns) V_R = 6 V I_F = 10 mA R_L = 100 Ω
	@ 0.1 mA	@ 0.25 mA	@ 1 mA	@ 2 mA	@ 5 mA	@ 10 mA	@ 20 mA	@ 30 mA	@ 50 mA	@ 100 mA	@ 200 mA	@ 250 mA	@ 5 μA	@ 100 μA	@ 25°C	V_R (V)	@ 150°C	V_R (V)		
1N4531						1.0							75	100	0.025 / 5.0	20 / 75	50.0	20	4	4
1N4532						1.0							75		0.1	50	100	50	2	2
1N4533	0.49[1] / 0.55	0.53 / 0.59	0.59 / 0.67	0.62 / 0.70		0.70 / 0.81	0.74 / 0.88						40		0.05	30	50.0	30	2	2
1N4534	0.49 / 0.55	0.53 / 0.59	0.59 / 0.67	0.62 / 0.70		0.70 / 0.81	0.74 / 0.88						75		0.05	50	50.0	50	2	2
1N4536								1.0					35		0.10	25	100	25	4	2

[1] The upper value for V_F refers to V_F min and the lower to V_F max.

Electrical characteristic curves

1N4531

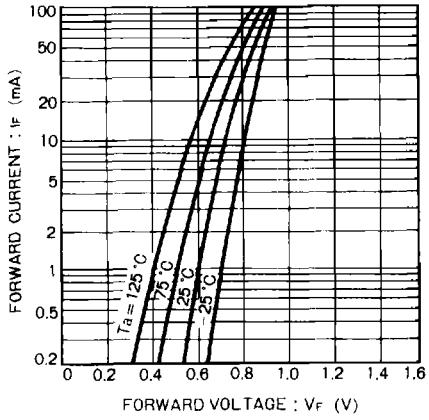


Figure 1

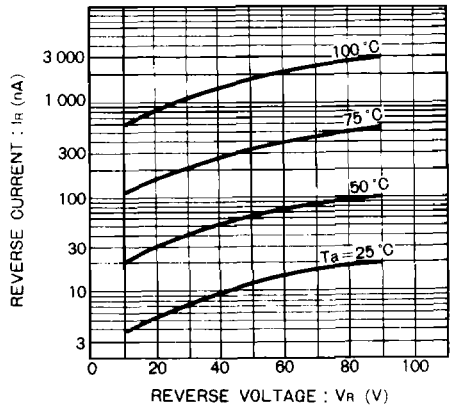


Figure 2

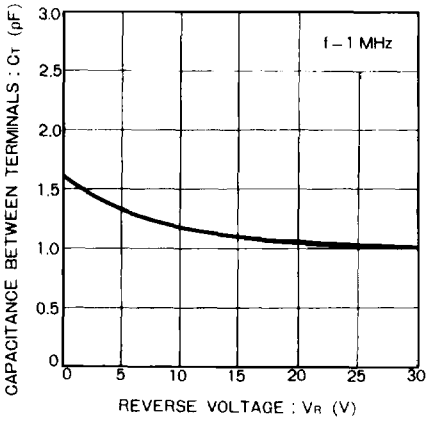


Figure 3

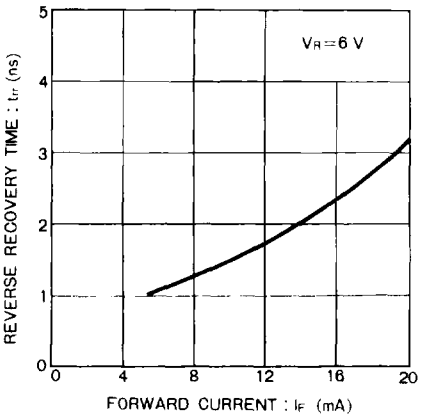


Figure 4

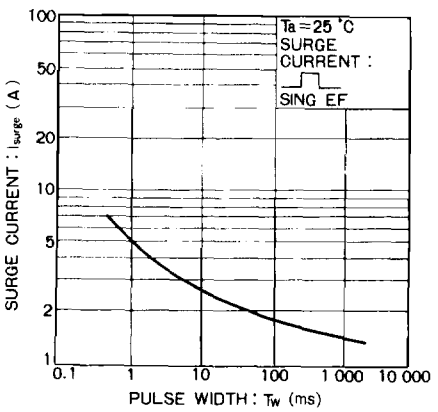


Figure 5

Electrical characteristic curves—1N4532, 1N4533, 1N4534, 1N4536

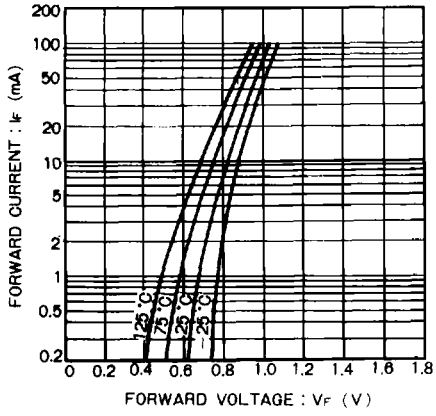


Figure 6

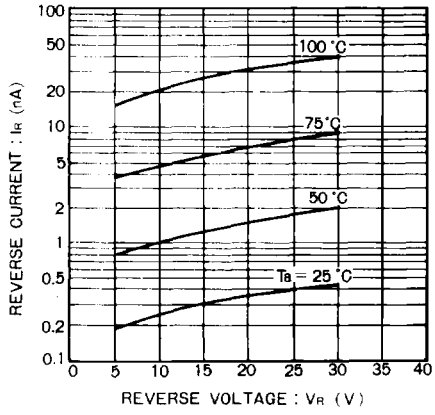


Figure 7

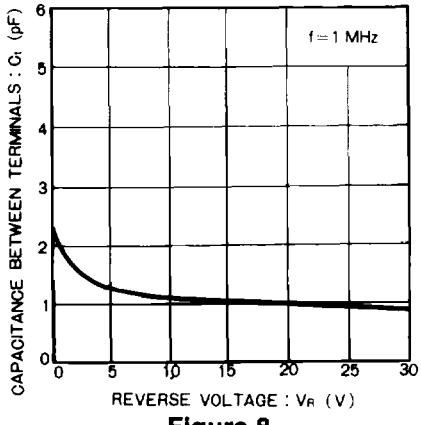


Figure 8

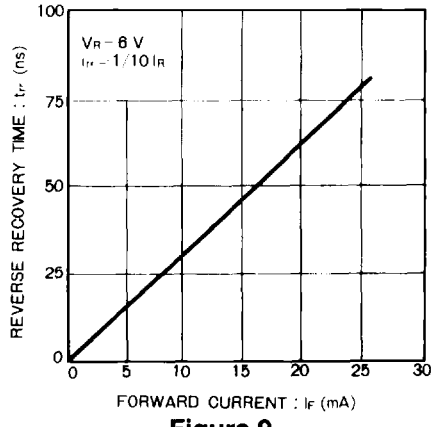


Figure 9

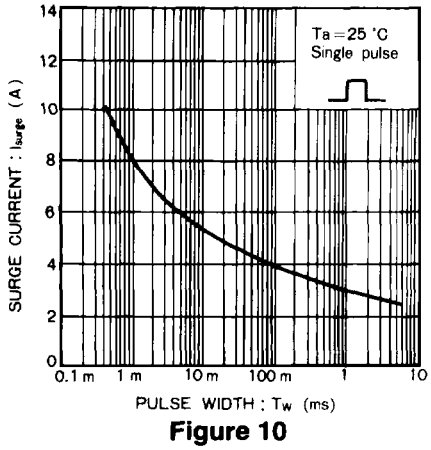
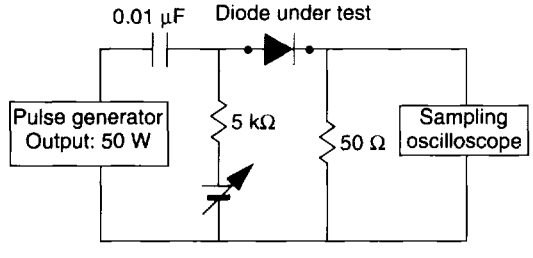


Figure 10



Test circuit for measuring reverse recovery time (t_{rr})

Figure 11